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1 ARIES: a transaction recovery method supporting fine-granularity locking and partial rollbacks using write-ahead logging



C. Mohan, Don Haderle, Bruce Lindsay, Hamid Pirahesh, Peter Schwarz March 1992 ACM Transactions on Database Systems (TODS), Volume 17 Issue 1

Full text available: pdf(5.23 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms, <u>review</u>

DB2TM, IMS, and TandemTM systems. ARIES is applicable not only to database management systems but also to persistent object-oriented languages, recoverable file systems and transaction-based operating systems. ARIES has been implemented, to varying degrees, in IBM's OS/2TM Extended Edition Database Manager, DB2, Workstation Data Save Facility/VM, Starburst and QuickSilver, and in the University of Wisconsin's EXODUS and Gamma d ...

Keywords: buffer management, latching, locking, space management, write-ahead logging

Industrial sessions: beyond relational tables: Coordinating backup/recovery and data consistency between database and file systems



Suparna Bhattacharya, C. Mohan, Karen W. Brannon, Inderpal Narang, Hui-I Hsiao, Mahadevan Subramanian

June 2002 Proceedings of the 2002 ACM SIGMOD international conference on Management of data

Full text available: pdf(1.44 MB)

Additional Information: full citation, abstract, references, index terms

Managing a combined store consisting of database data and file data in a robust and consistent manner is a challenge for database systems and content management systems. In such a hybrid system, images, videos, engineering drawings, etc. are stored as files on a file server while meta-data referencing/indexing such files is created and stored in a relational database to take advantage of efficient search. In this paper we describe solutions for two potentially problematic aspects of such a data ...

Keywords: DB2, content management, database backup, database recovery, datalinks

Peer-to-peer infrastructure: Pastiche: making backup cheap and easy Landon P. Cox, Christopher D. Murray, Brian D. Noble



December 2002 ACM SIGOPS Operating Systems Review, Volume 36 Issue SI

Full text available: pdf(1.65 MB) Additional Information: full citation, abstract, references

Backup is cumbersome and expensive. Individual users almost never back up their data, and backup is a significant cost in large organizations. This paper presents *Pastiche*, a simple and inexpensive backup system. Pastiche exploits excess disk capacity to perform peer-to-peer backup with no administrative costs. Each node minimizes storage overhead by selecting peers that share a significant amount of data. It is easy for common installations to find suitable peers, and peers with high ove ...

4 DLFM: a transactional resource manager

Hui-I Hsiao, Inderpal Narang

May 2000 ACM SIGMOD Record, Proceedings of the 2000 ACM SIGMOD international conference on Management of data, Volume 29 Issue 2

Full text available: 📆 pdf(124,99 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

The DataLinks technology developed at IBM Almaden Research Center and now available in DB2 UDB 5.2 introduces a new data type called DATALINK for a database to reference and manage files stored external to the database. An external file is put under a database control by "linking" the file to the database. Control to a file can also be removed by "unlinking" it. The technology provides transactional semantics with respect to linking or unlinking the file when DATALINK ...

5 <u>High speed on-line backup when using logical log operations</u>

David B. Lomet

May 2000 ACM SIGMOD Record , Proceedings of the 2000 ACM SIGMOD international conference on Management of data, Volume 29 Issue 2

Full text available: pdf(220.69 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>

Media recovery protects a database from failures of the stable medium by maintaining an extra copy of the database, called the backup, and a media recovery log. When a failure occurs, the database is "restored" from the backup, and the media recovery log is used to roll forward the database to the desired time, usually the current time. Backup must be both fast and "on-line", i.e. concurrent with on-going update activity. Conventional online backup sequentially copies ...

The Recovery Manager of the System R Database Manager

Jim Gray, Paul McJones, Mike Blasgen, Bruce Lindsay, Raymond Lorie, Tom Price, Franco Putzolu, Irving Traiger

June 1981 ACM Computing Surveys (CSUR), Volume 13 Issue 2

—

Full text available: pdf(1.75 MB) Additional Information: full citation, references, citings, index terms

7 Principles of transaction-oriented database recovery

Theo Haerder, Andreas Reuter

December 1983 ACM Computing Surveys (CSUR), Volume 15 Issue 4

Full text available: pdf(2.48 MB) Additional Information: full citation, references, citings, index terms, review

Compiler transformations for high-performance computing
David F. Bacon, Susan L. Graham, Oliver J. Sharp
December 1994 ACM Computing Surveys (CSUR), Volume 26 Issue 4



Full text available: pdf(6.32 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

In the last three decades a large number of compiler transformations for optimizing programs have been implemented. Most optimizations for uniprocessors reduce the number of instructions executed by the program using transformations based on the analysis of scalar quantities and data-flow techniques. In contrast, optimizations for high-performance superscalar, vector, and parallel processors maximize parallelism and memory locality with transformations that rely on tracking the properties o ...

Keywords: compilation, dependence analysis, locality, multiprocessors, optimization, parallelism, superscalar processors, vectorization

File servers for network-based distributed systems

Liba Svobodova

December 1984 ACM Computing Surveys (CSUR), Volume 16 Issue 4

Full text available: pdf(4.23 MB)

Additional Information: full citation, references, citings, index terms, review

10 An efficient and flexible method for archiving a data base

C. Mohan, Inderpal Narang

June 1993 ACM SIGMOD Record, Proceedings of the 1993 ACM SIGMOD international conference on Management of data, Volume 22 Issue 2

Full text available: pdf(969.13 KB)

Additional Information: full citation, abstract, references, citings, index terms

We describe an efficient method for supporting incremental and full archiving of data bases (e.g., individual files). Customers archive their data bases quite frequently to minimize the duration of data outage. Because of the growing sizes of data bases and the ever increasing need for high availability of data, the efficiency of the archive copy utility is very important. The method presented here minimizes interferences with concurrent transactions by not acquiring any locks on the data b ...

11 Recovery Techniques for Database Systems

Joost S. M. Verhofstad

June 1978 ACM Computing Surveys (CSUR), Volume 10 Issue 2

Full text available: pdf(2.32 MB)

Additional Information: full citation, references, citings, index terms

12 A recovery algorithm for a high-performance memory-resident database system Tobin J. Lehman, Michael J. Carey

December 1987 ACM SIGMOD Record, Proceedings of the 1987 ACM SIGMOD international conference on Management of data, Volume 16 Issue 3

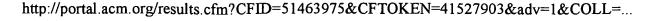
Full text available: pdf(1.50 MB)

Additional Information: full citation, abstract, references, citings, index

With memory prices dropping and memory sizes increasing accordingly, a number of researchers are addressing the problem of designing high-performance database systems for managing memory-resident data. In this paper we address the recovery problem in the context of such a system. We argue that existing database recovery schemes fall short of meeting the requirements of such a system, and we present a new recovery mechanism which is designed to overcome their shortcomings. The proposed mecha ...

Operating systems: DualFS: a new journaling file system without meta-data duplication





Juan Piernas, Toni Cortes, José M. García

June 2002 Proceedings of the 16th international conference on Supercomputing

Full text available: pdf(213.64 KB) Additional Information: full citation, abstract, references, index terms

In this paper we introduce DualFS, a new high performance journaling file system that puts data and meta-data on different devices (usually, two partitions on the same disk or on different disks), and manages them in very different ways. Unlike other journaling file systems, DualFS has only one copy of every meta-data block. This copy is in the meta-data device, a log which is used by DualFS both to read and to write meta-data blocks. By avoiding a time-expensive extra copy of meta-data b ...

Keywords: DualFS, journaling file system, meta-data management

14 Columns: Risks to the public in computers and related systems

Peter G. Neumann

January 2001 ACM SIGSOFT Software Engineering Notes, Volume 26 Issue 1

Full text available: pdf(3.24 MB) Additional Information: full citation

15 Data collections and MM: 3D MURALE: multimedia database system architecture Edward Grabczewski, John Cosmas, Peter Van Santen, Damian Green, Takebumi Itaqaki, Fred Weimer

November 2001 Proceedings of the 2001 conference on Virtual reality, archeology, and cultural heritage

Full text available: 📆 pdf(169.47 KB) Additional Information: full citation, abstract, references, index terms

Archaeological databases are required to store a wide range of data about archaeological objects. Multimedia, spatial and temporal requirements are placing new demands on these databases. Virtual models of archaeological sites require new storage and search facilities, including searching of 3D graphics for virtual and physical restoration of archaeological finds. We examine the architecture, design philosophy and proposed implementation of the 3D MURALE multimedia database, which will be used b ...

Keywords: archaeology, multimedia Databases, photogrammetry, virtual Reality

16 Data base directions: the next steps

John L. Berg

November 1976 ACM SIGMOD Record, ACM SIGMIS Database, Volume 8, 8 Issue 4, 2

Full text available: pdf(9.95 MB) Additional Information: full citation, abstract

What information about data base technology does a manager need to make prudent decisions about using this new technology? To provide this information the National Bureau of Standards and the Association for Computing Machinery established a workshop of approximately 80 experts in five major subject areas. The five subject areas were auditing, evolving technology, government regulations, standards, and user experience. Each area prepared a report contained in these proceedings. The proceedings p ...

Keywords: DBMS, auditing, cost/benefit analysis, data base, data base management, government regulation, management objectives, privacy, security, standards, technology assessment, user experience

Industry perspectives: Toward autonomic computing with DB2 universal database

17

Sam S. Lightstone, Guy Lohman, Danny Zilio September 2002 ACM SIGMOD Record, Volume 31 Issue 3

Full text available: pdf(785.28 KB) Additional Information: full citation, abstract, references

As the cost of both hardware and software falls due to technological advancements and economies of scale, the cost of ownership for database applications is increasingly dominated by the cost of people to manage them. Databases are growing rapidly in scale and complexity, while skilled database administrators (DBAs) are becoming rarer and more expensive. This paper describes the self-managing or autonomic technology in IBM's DB2 Universal Database® for UNIX and Windows to illustrate how self ...

18 ARIES/CSA: a method for database recovery in client-server architectures C. Mohan, Inderpal Narang



May 1994 ACM SIGMOD Record, Proceedings of the 1994 ACM SIGMOD international conference on Management of data, Volume 23 Issue 2

Full text available: pdf(1.33 MB)

Additional Information: full citation, abstract, references, citings, index terms

This paper presents an algorithm, called ARIES/CSA (Algorithm for Recovery and Isolation Exploiting Semantics for Client-Server Architectures), for performing recovery correctly in client-server (CS) architectures. In CS, the server manages the disk version of the database. The clients, after obtaining database pages from the server, cache them in their buffer pools. Clients perform their updates on the cached pages and produce log records. The log records are buffered loca ...

19 Relational Database Systemsr

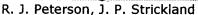
Won Kim

September 1979 ACM Computing Surveys (CSUR), Volume 11 Issue 3

Full text available: pdf(2.67 MB)

Additional Information: full citation, references, citings, index terms

20 Session 6: Log write-ahead protocols and IMS/VS logging



March 1983 Proceedings of the 2nd ACM SIGACT-SIGMOD symposium on Principles of database systems

Full text available: mpdf(2.14 MB)

Additional Information: full citation, references, citings

Keywords: database, database management system, process synchronization point, recovery strategy, resource consistency, system failure, system log, transaction

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| L8 | 325985 | (restor\$4 or (partial adj restor\$4) or unrestor\$4 or ("not" adj2 restor\$3)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/08/03 13:35 |
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| L4 | 37897 | "709"/\$.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/08/03 13:27 |
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